

PHENIX WEEKLY PLANNING



2/14/2013
Don Lynch

TECHNICAL SUPPORT 2013

2012 Shutdown is concluded.

All shutdown tasks to be completed during this shutdown have been completed and we are ready to start run 13.

During Run 13, the PHENIX technical staff will provide mechanical and electrical services as needed, provide support to future PHENIX upgrades particularly sPHENIX and MPC-Ex and prepare for tasks during the 2013 shutdown.

All requests for technical support should be made through the PHENIX engineering staff, Don Lynch, Steve Boose, Paul Giannotti and/or Rob Pisani. In their absence, requests should be made through Carter Biggs.

PHENIX Awareness Training has been updated. Now includes info on use of fixed ladders.

End of Shutdown Party Friday 2/15 at Noon

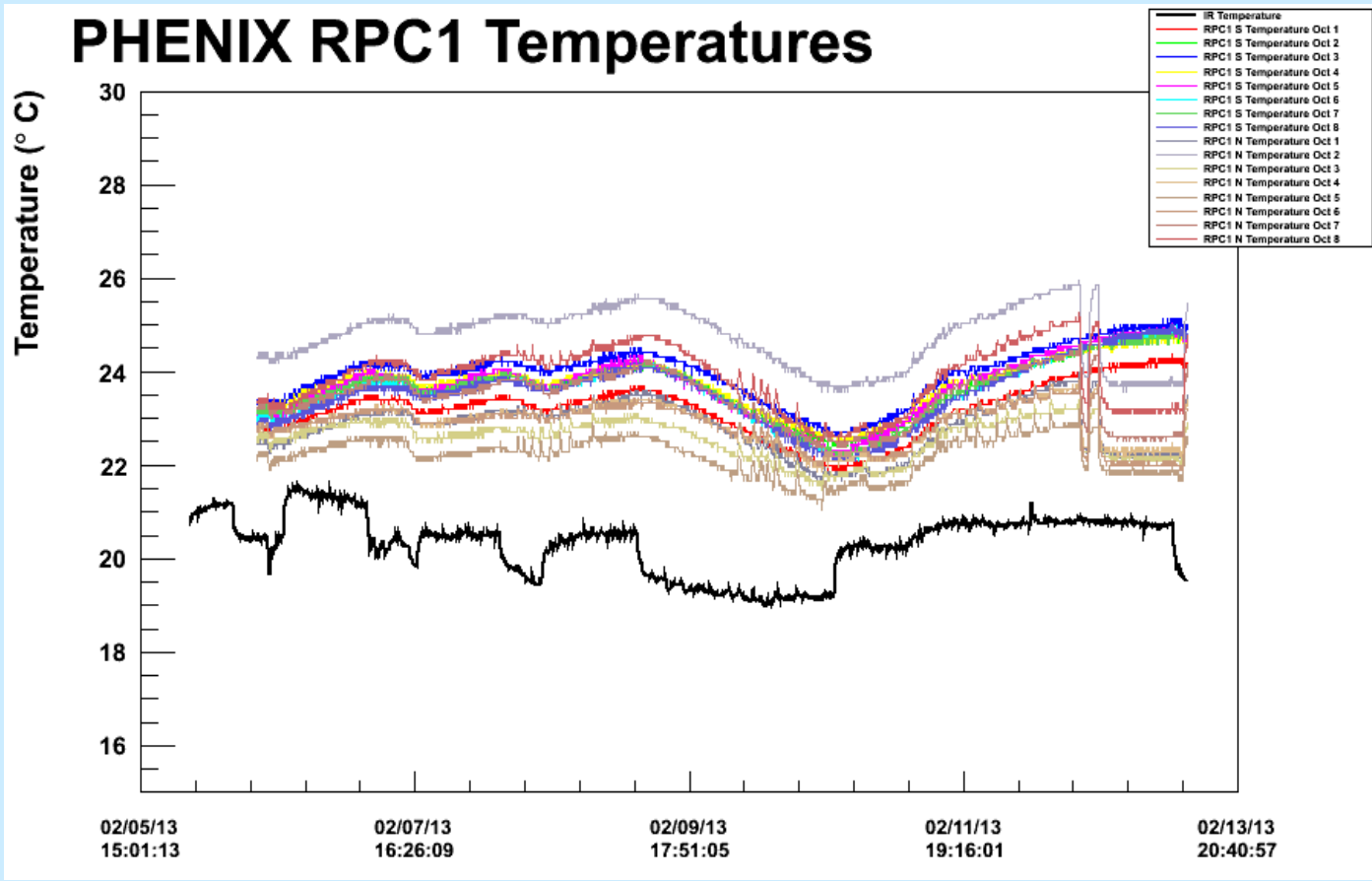
Next Week

TECHNICAL
SUPPORT
2013

- President's Day Lab Holiday Monday 2/18: No work
- Run 13 Continues
- Next Maintenance Access Day ??
- Continue sPHENIX Support
- Continue MPC-Ex design
- Plan for 2013 Shutdown

RPC1 Thermal Concerns

With only 2 AC unit's in the IR working, there are concerns that adequate cooling for RPC1's may not be available.



RPC Background Attenuation Project

TECHNICAL SUPPORT 2013



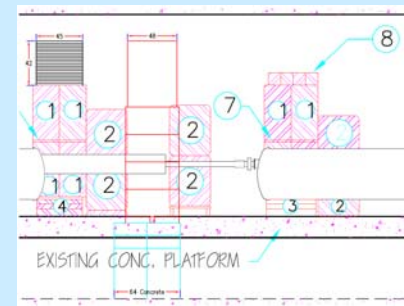
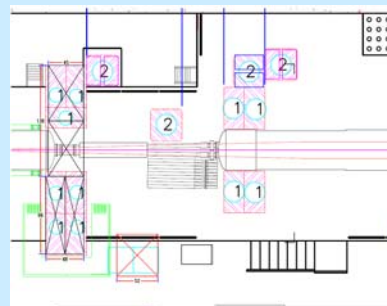
Looking towards RPC3 North
← East West →



Looking towards RPC3 South
← West East →

Done

Large shielding modifications at Q2 upstream north and south to be planned and installed by CA-D (Dave Phillips) by 12/14/2012.



2/14/2013

Window Washer Remote Pin Removal and Winch/spooler safety upgrades



South Side pin

Limit switch

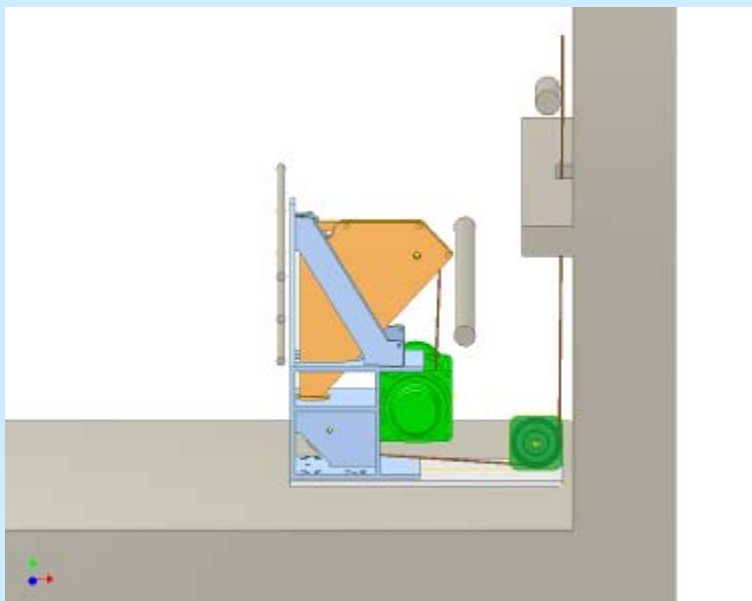


North Side pin

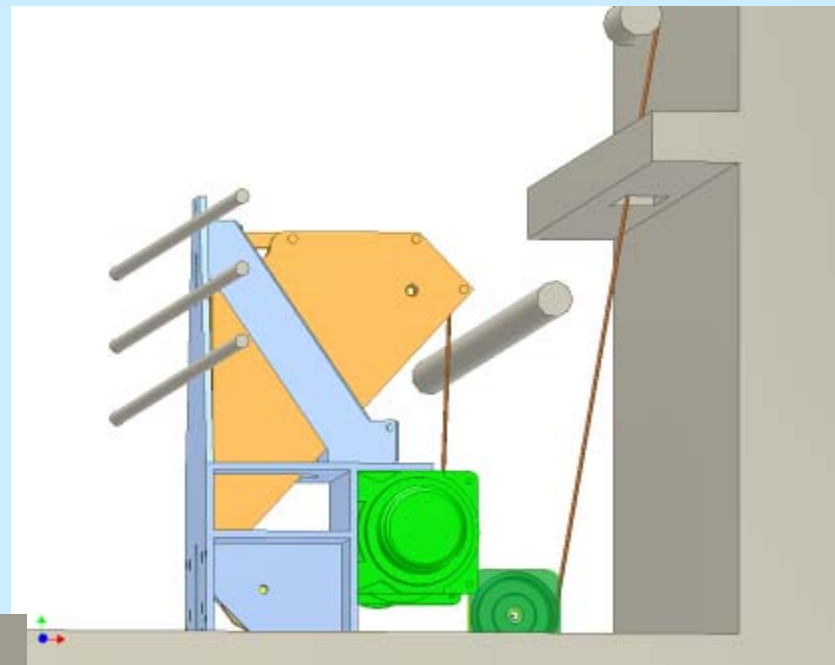
Limit switch



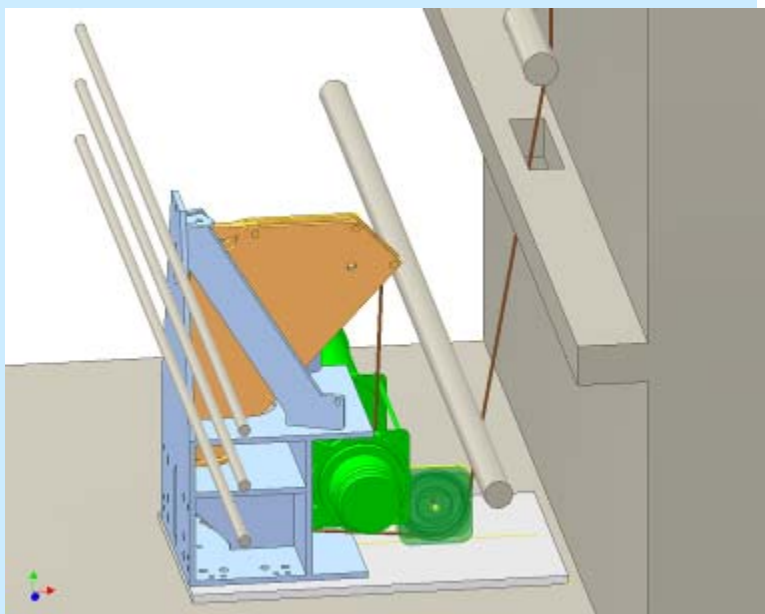
Window Washer Remote Pin Removal and Winch/spooler safety upgrades



Minimum angle from winch: Need clearance between 1 and 2 inches from wall



Maximum angle from winch: Need clearance between 1 and 4 inches from wall





The two 10 ton units will have their Trane controls replaced with Automated Logic Corp. (ALC) controls.

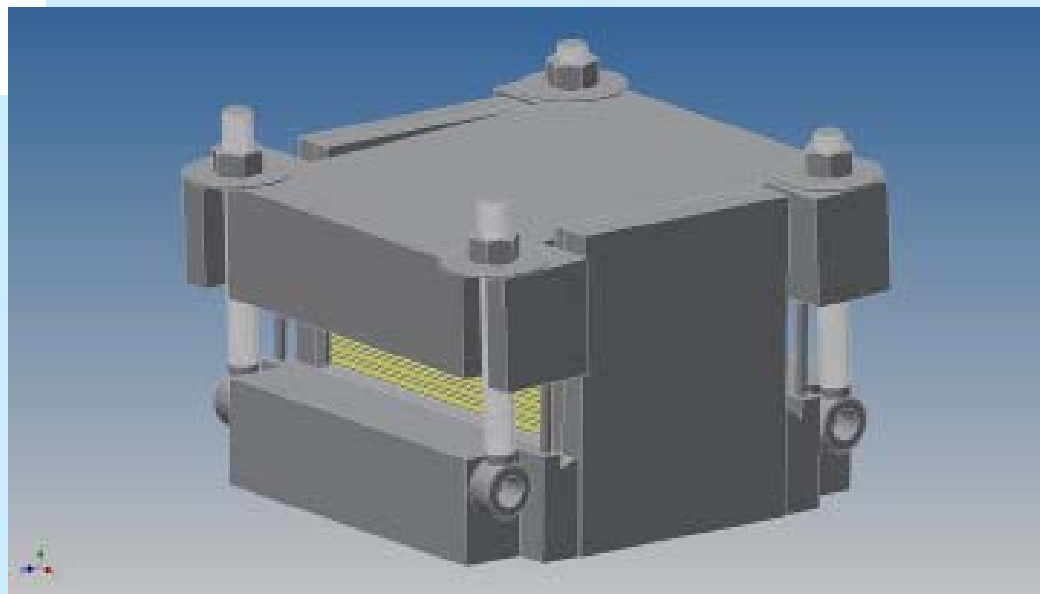
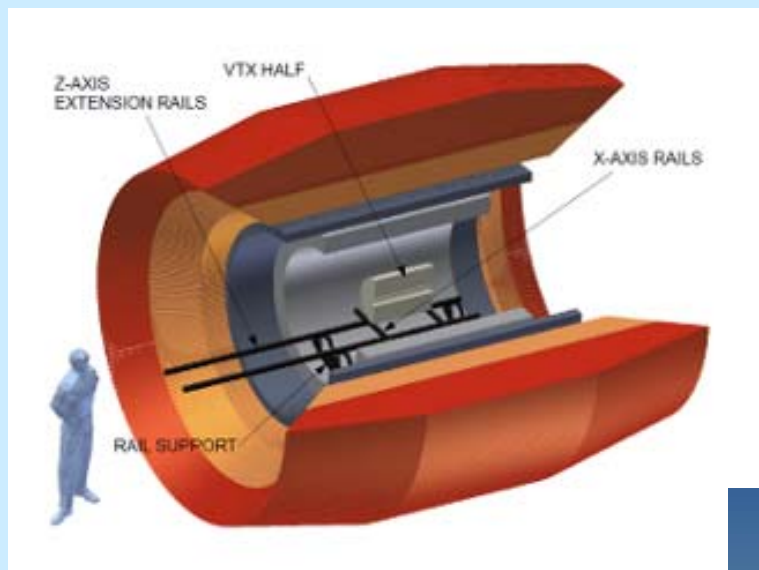
Both units will be out of service during modification work for two weeks in February. Rack Room winter heat loads will be handled by the 30 ton and floor unit during this time.

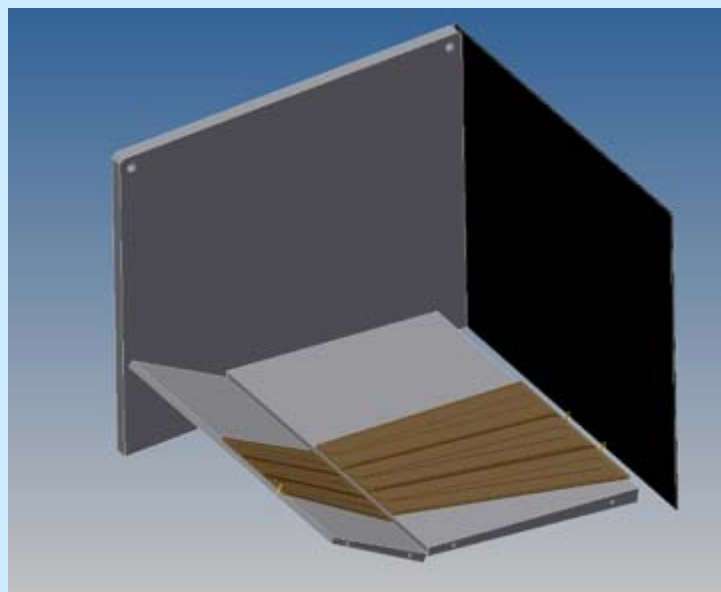
Engineering work is in progress to eventually upgrade the 30 ton roof mounted unit controls and IR HVAC controls.

sPHENIX Proposed Upgrade

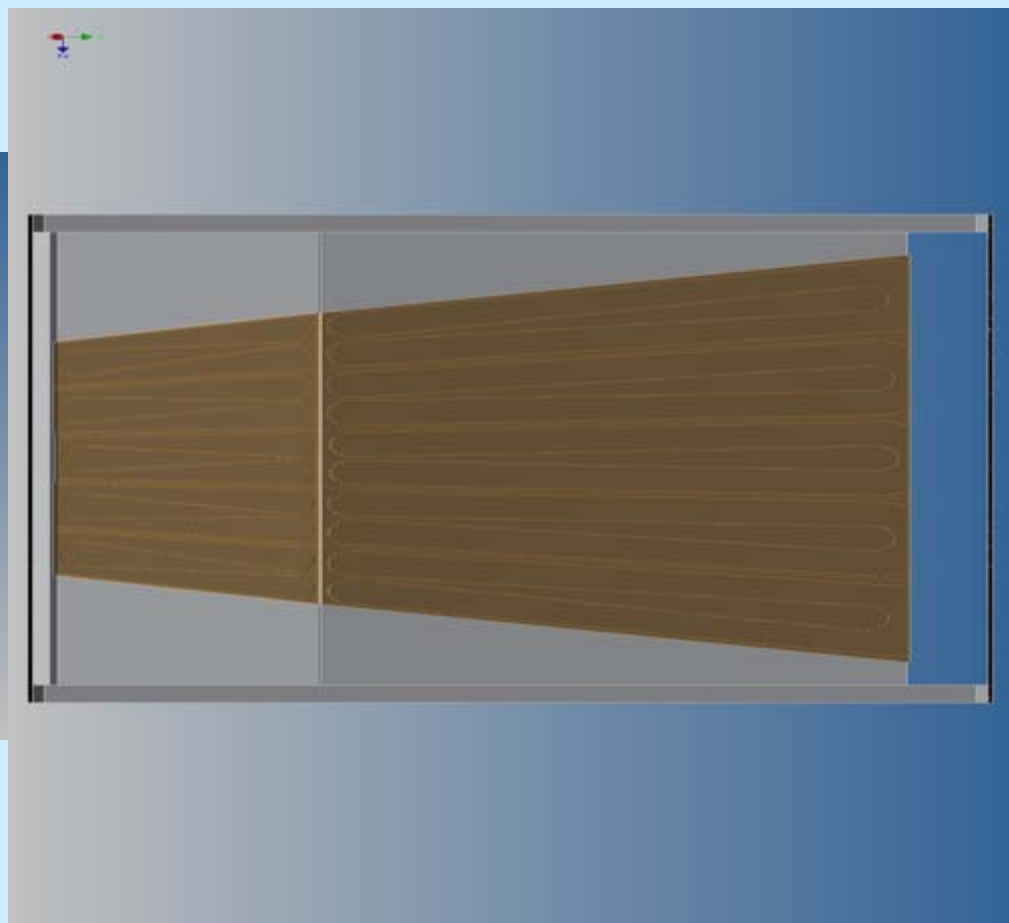
Work continues evaluating engineering tradeoffs for EMCal and HCal design, materials, etc.

Prototype HCal and EMCal in progress

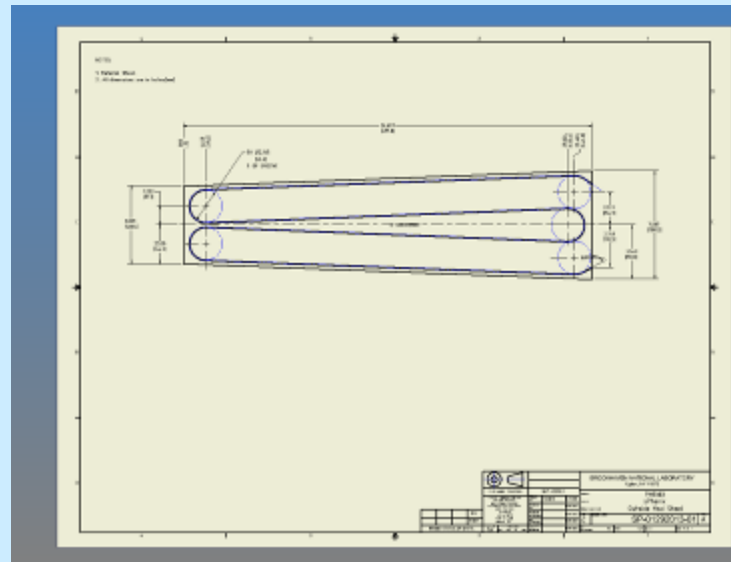
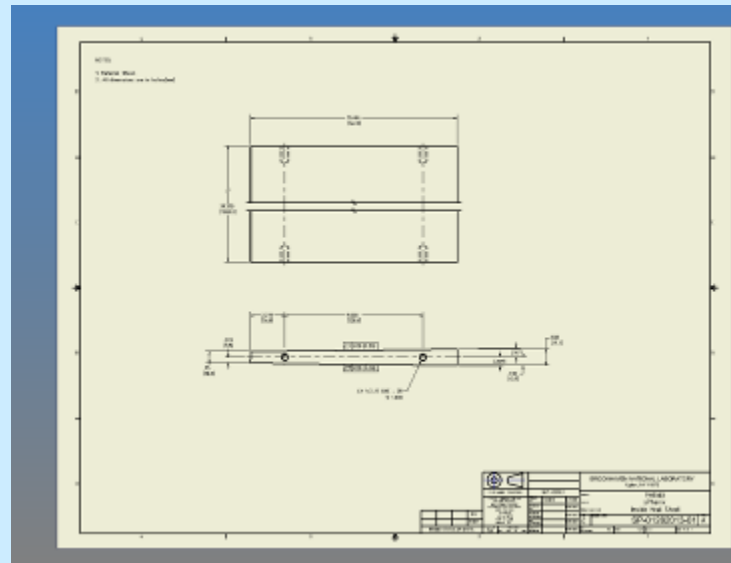
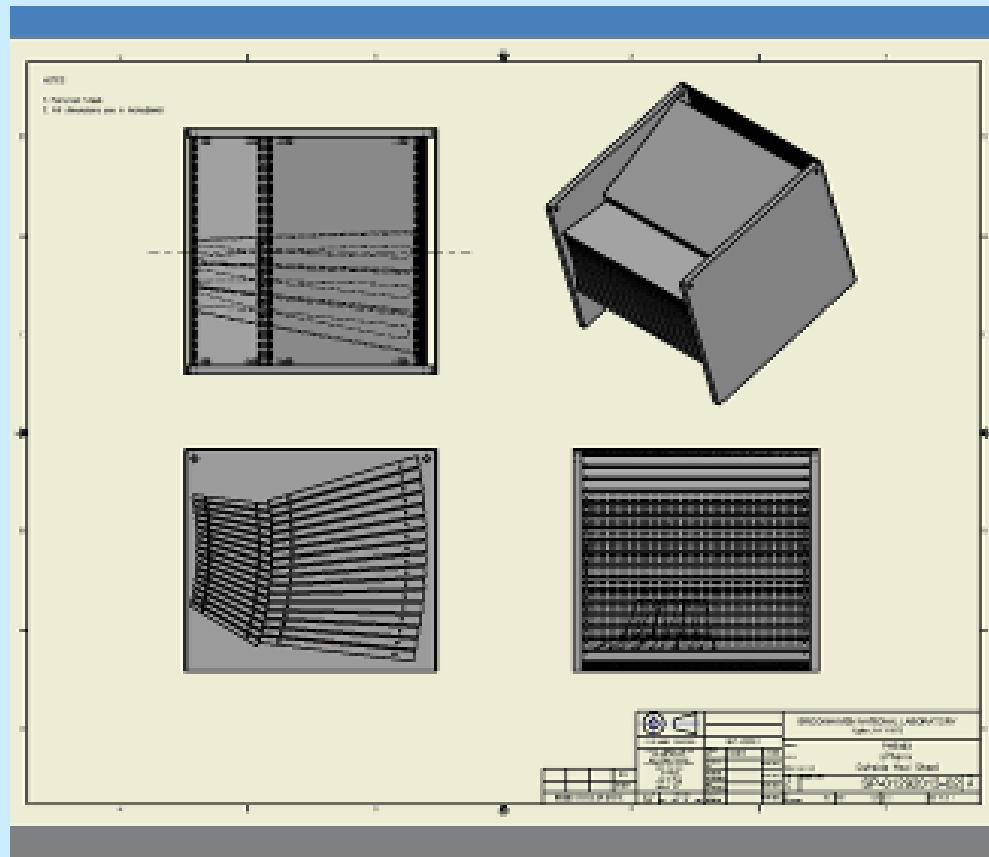




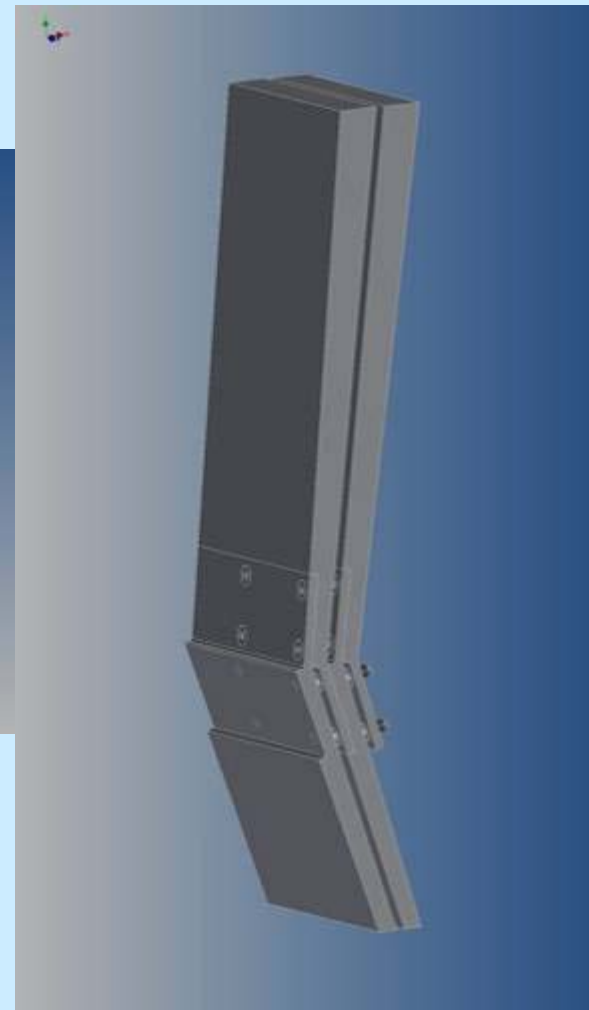
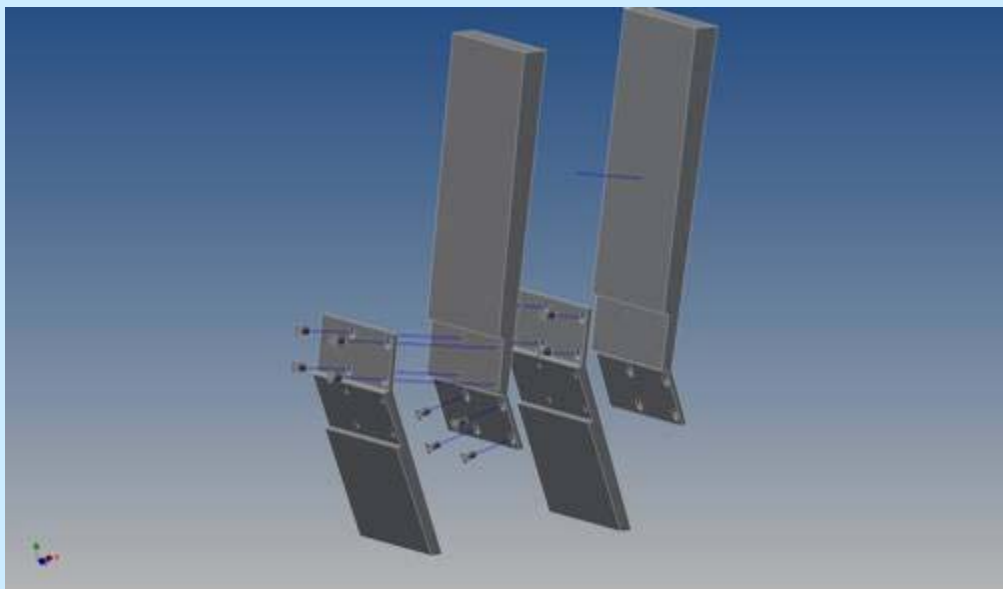
Scintillator and steel cutaway



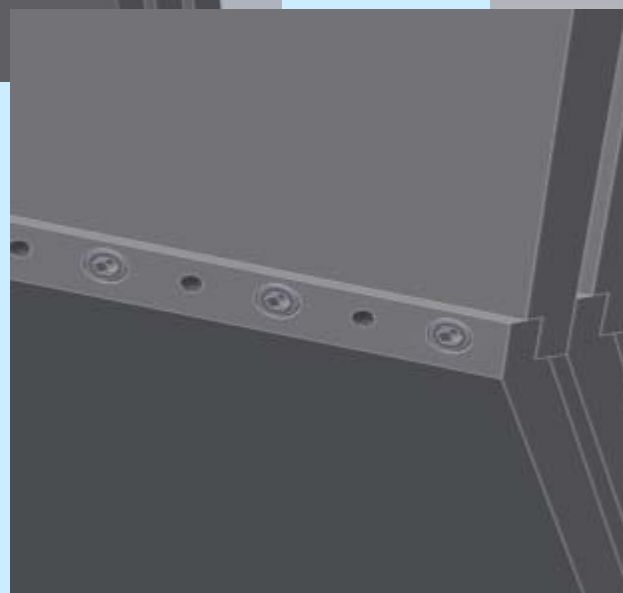
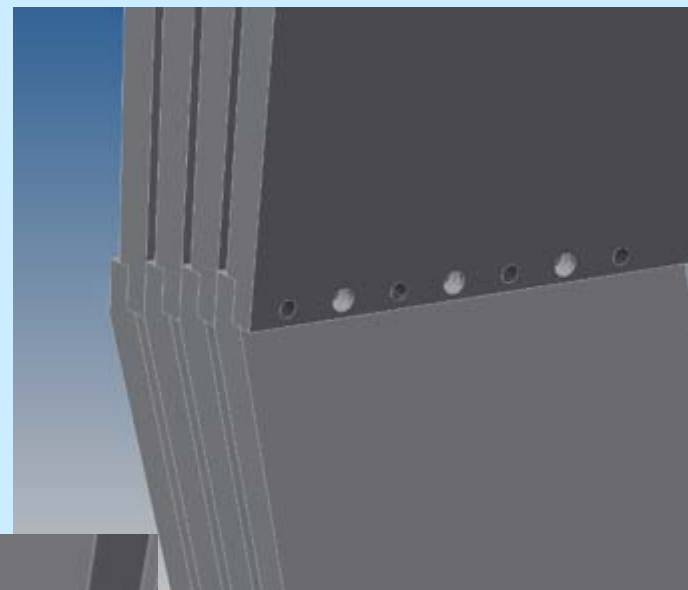
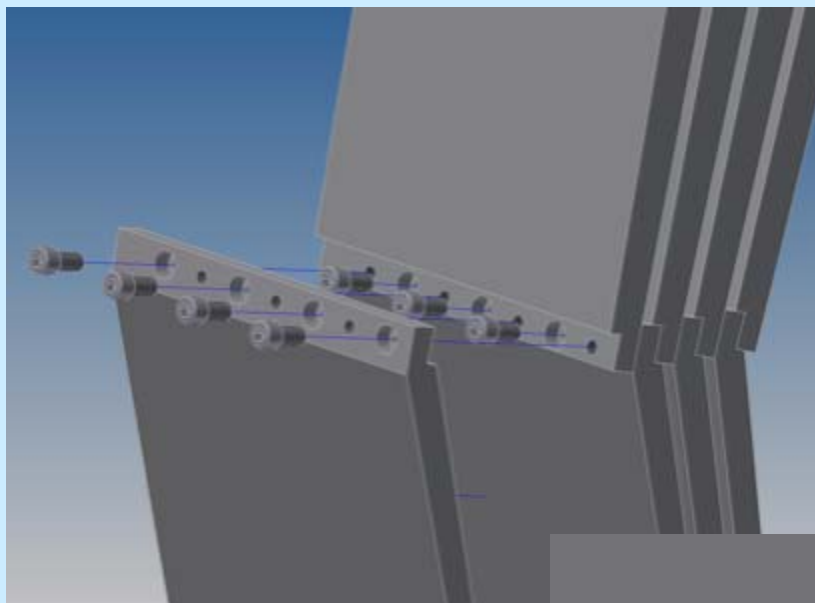
Top View



Assembly of machined parts and fasteners

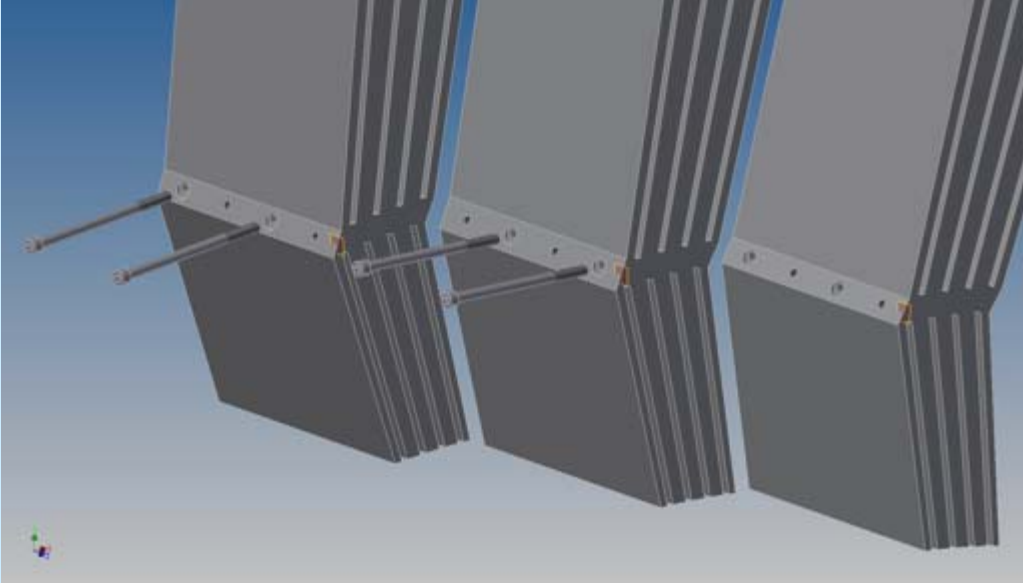


Assembly of butted ribs and fasteners

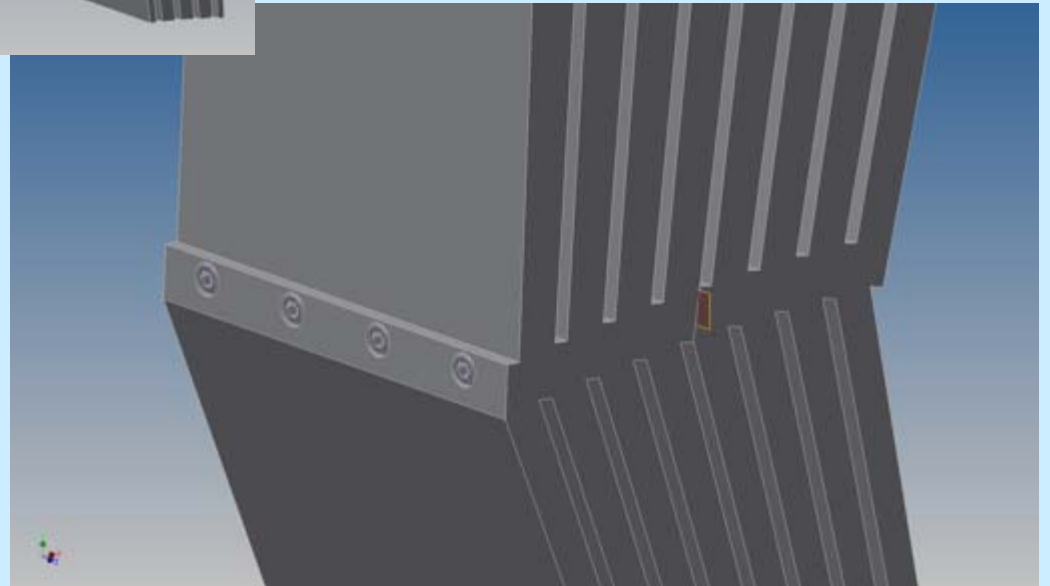


Assembly of machined towers and fasteners

T

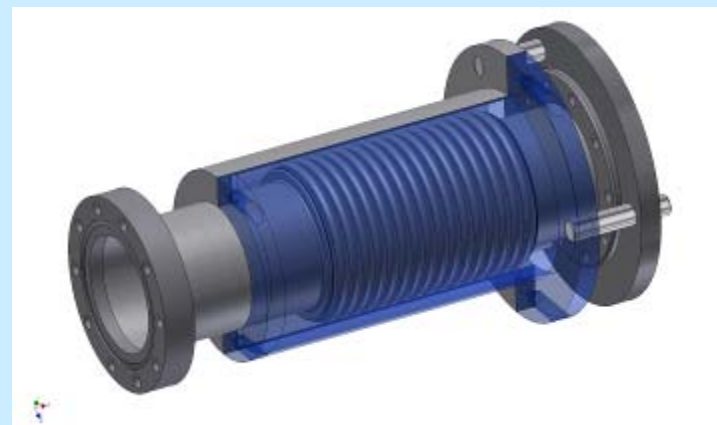


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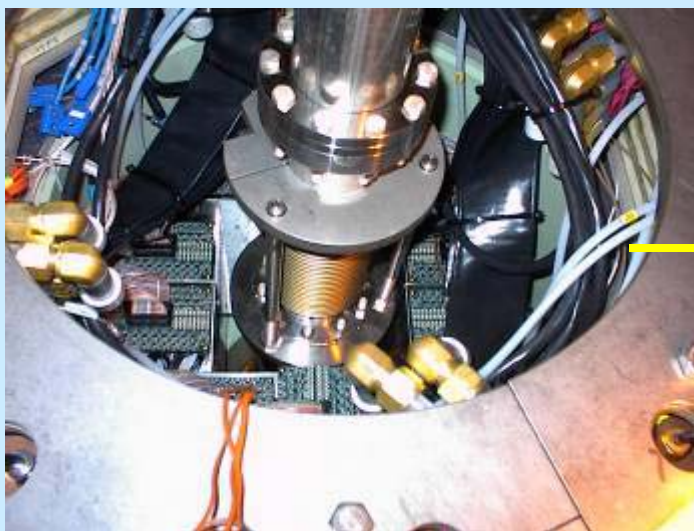




Existing vacuum bellows anti-squirm
In MPC S Cavity



Proposed vacuum bellows anti-squirm
In MPC S Cavity to accommodate MPC-Ex



MPCS Flat cables replaced with round cables.

TECHNICAL SUPPORT 2013

End of 2012 Shutdown Party	2/15/2013
Prep for 2013 shutdown	2/11-6/30/2013
Design, Fabricate MPC-Ex	
Define tasks and goals	
Analysis and design of fixtures, tools and procedures	
Fabricate/procure tools and fixtures	
Tests, mockups, prototypes	
Receive, fabricate, modify, finish installables	
Review and approval of parts, tools, fixtures and procedures	
Assembly and QA tests	
End of Run Party	6/28/2013
Run 12 Ends	6/30/2013
Shutdown Standard Tasks	6/30-7/19/2013
• Open wall, disassemble wall, Remove MuID Collars,	
• Move EC to AH, etc.	
Disassemble VTX/FVTX services	7/1-7/19/2013
July 4 th Holiday	7/4/2013
Remove VTX/FVTX and transport to Chemistry Lab	7/22/2013
Assemble, Test and Install MPC-Ex (North only?)	7/22-10/1/2013
Summer Sunday (8/5) Prep and teardown	8/1-8/??/2013
Other detector maintenance as required	As required
Infrastructure maintenance as required	As required
TBD prototype tasks	As required
Summer Sunday (RHIC)	8/??/13

TECHNICAL SUPPORT NOTES

Labor Day Holiday	9/2/2013
Repair upgrade, reassemble VTX/FVTX	7/23-10/13/2013
Test, survey (at Chemistry and IR) and re-install VTX/FVTX	10/16-10/27/2013
Pre-run commissioning and prep for run 14	11/1-12/31/2012
Prep for EC roll in	11/1-11/9/2013
Roll in EC	11/10-11/12/2013
Prep IR for run	11/1-11/30/2013
Pink/Blue/White sheets	12/14-12/31/13
Start run 14	1/1/2014

1. PHENIX Annual Safety Review: action items

- PHENIX to provide C-AD with a plan for continued use of the RPC factory (O'Brian, Lynch Feb 15, 2013)
- Review to assure all power supplies are NRTL equivalent compliant and affix respective labels (Giannotti Feb 10, 2013) **Done**
- Provide the new flammable gases leak rates (Pisani, Feb 1, 2013) **Done**
- Provide the updated gas usage quantities (Pisani Feb 1, 2013) **Done**
- Provide details of the Rad Monitor EE! (Boose Feb1, 2013) **Done**
- Provide approval by a certified EE for the Rad Monitor system (Giannotti Feb 1, 2013) **Done**
- Carry out the Blue Sheeting (CAS, Phillips Feb 1, 2013) **Done**
- Provide documentation on the upgraded NOVEC gas system (Pisani Feb 15, 2013)
- Provide an assessment of the new gas system software, what QA rating and proposed configuration control (Pisani Feb 15, 2013)
- Provide updated sweep procedures (Sampson Feb 15, 2013) **Done**
- Carry out an inspection of the installed platform gates (Cirnigliaro Feb 10, 2013) **Done**



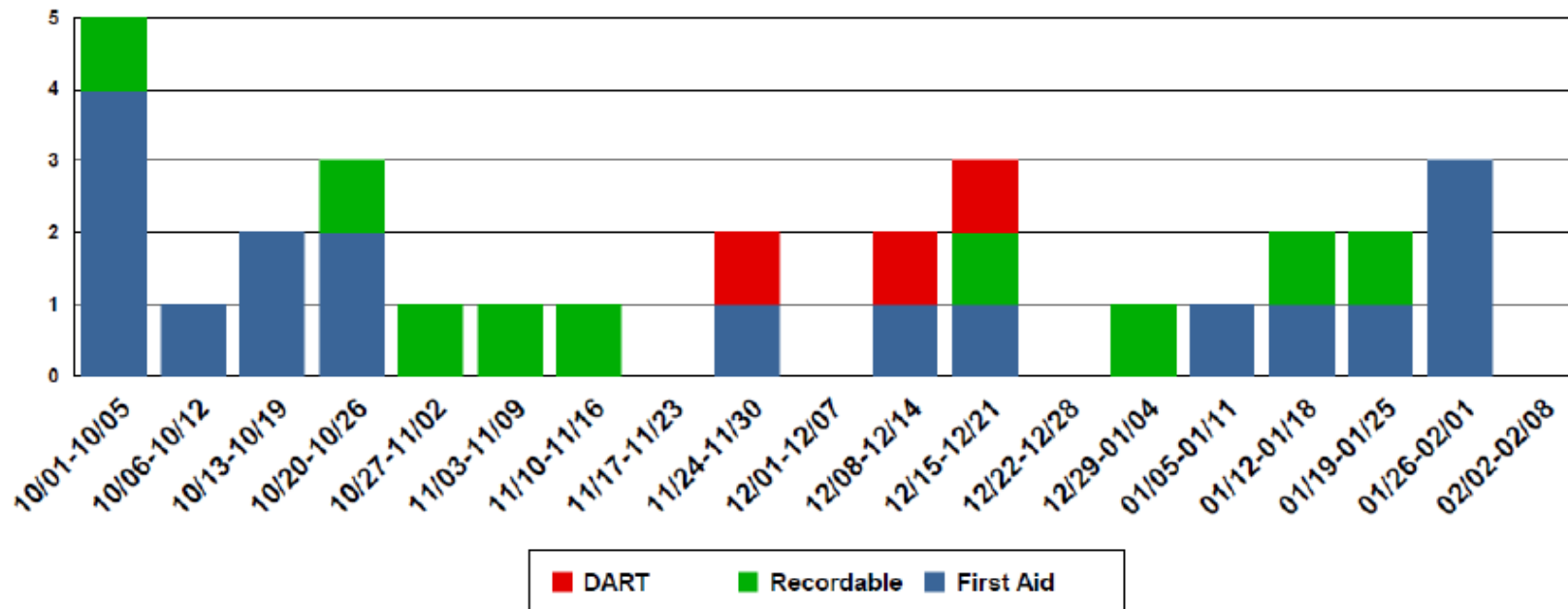
1.(cont'd) General Items:

- Update the PHENIX ECR. (Craner, Feb 15, 2013) **Done**
- Update the PHENIX work plan (Cirnigliaro Feb 1, 2013) **Done**
- Carry out a magnetic safety review (Phillips Feb 10, 2013) **Done**
- A walk through of the PHENIX detector prior to introduction of flammable gas. (Makdisi / Etkin et al Feb 7, 2013) **Done**
- Update the documented work procedures. (Lynch Continuing from last year) **Done**
- Establish trained PHENIX watch shifts. (O'Brien Feb 1, 2013) **Done**
- Review and update the PHENIX emergency procedure if necessary (Makdisi Feb 1, 2013) **Done**

2. PHENIX Procedures: Rob/Paul/Don 3 year cycle review completed: 22 procedures renewed without change, 6 procedures de-activated, PHENIX Awareness revised to include ladder stuff ODH1 and POM training renewal
3. RHIC tunnel is now posted as ODH-1 (does not include PHENIX IR). Web training, POM/Escape pack training and medical clearance necessary to go in tunnel.
4. Make sure annual PHENIX awareness and Collider User trainings are to date.



Injuries Per Week (FY) As of 2/8/2013



Injury Status:

FY13 YTD: DART – 3, TRC – 12, First Aid – 18

FY12: DART – 17, TRC – 35, First Aid – 70

FY11: DART – 30, TRC – 44, First Aid – 45

FY13 Injury Listing: <https://intranet.bnl.gov/esh/shsd/seg/OccInj/BNLInjuries.aspx>

Recent Injuries

2/1/13	First Aid	An employee felt knee discomfort after stepping down off a truck and afterwards, while walking. (Event Link)
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Recent Events		
2/7/13	Non-Reportable	A lab employee was delivering supplies in a custodial step van when the driver's side window fell out into the street and broke on Brookhaven Avenue in front of building 515. The van was pulled over to the side of the road and parked. Grounds responded to remove glass from the road. The van was taken to the motor pool for repair; it is out of service. There were no injuries. (Event Link)
2/7/13	Non-Reportable	BNL is currently experiencing a loss of telephone service outside the lab (internal 4 digit dialing still works). The telephone service provider, DNS, has notified ITD that they are experiencing hardware problems. During the time that telephone service is out, LP will be unable to receive offsite contacts to assist in the event of fire or other emergency using the BNL telephone system (outgoing service is still functional, as well as cell service). ITD will notify the BNL community when incoming phone service is restored. (Event Link)
2/6/13	Non-Reportable	An employee driving a lab pickup truck inadvertently backed into an employee's personal vehicle. There were no injuries, but there was minor damage to the lab truck and damage to the door and side view mirror of the personal vehicle. (Event Link)
2/6/13	Non-Reportable	A sealed radioactive source containing approximately 3.9 microcuries of Bismuth-207 was discovered in a wooden crate, in a SeaLand container stored outside Bldg. 820. The dose rate taken indicates 800 microrem/hour on contact. This is a legacy storage area; the material in the SeaLand container is believed to be related to the E949 experiment and is slated for disposal by the Physics Department. The crate has been posted as a Radioactive Material Area, TLD required. (Event Link)
2/6/13	Non-Reportable	A Facility Support RCT discovered 17000 dpm of Cobalt-60 contamination on the bottom of a work shoe while performing an exit frisk in an RBA after completing a routine surveillance in the HFBR. The area surveyed is a controlled, routinely monitored, posted Radiation Area/Fixed Contamination Area. The area has been surveyed on numerous occasions without incident. There was no contamination discovered in the travel path; it is believed that this was a discrete particle. The area will be reposted as a Contamination area for future entries. (Event Link)
2/5/13	Non-Reportable	An employee's personal vehicle backed into a fire hydrant, breaking it. Fire/Rescue responded and the hydrant's water supply was turned off. The hydrant is under repair. There were no personnel injuries and minor damage to the employee's vehicle. (Event Link)

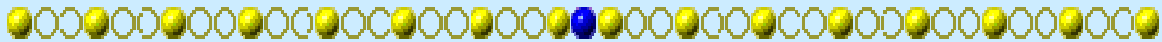
Where To Find PHENIX Engineering Info



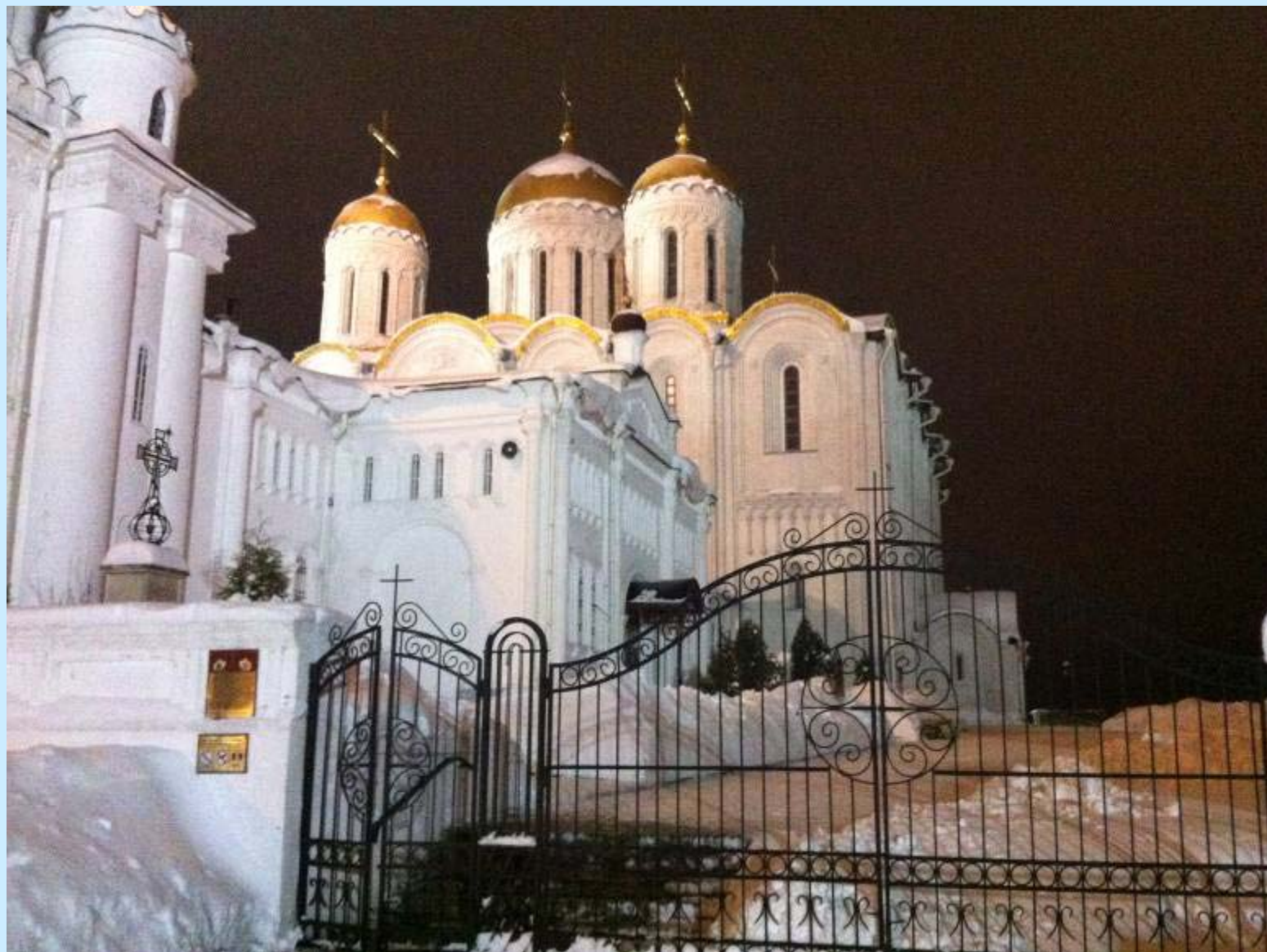
St. Valentine's Day Today:

Remember to remember your loved ones.

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm



TECHNICAL SUPPORT 2013





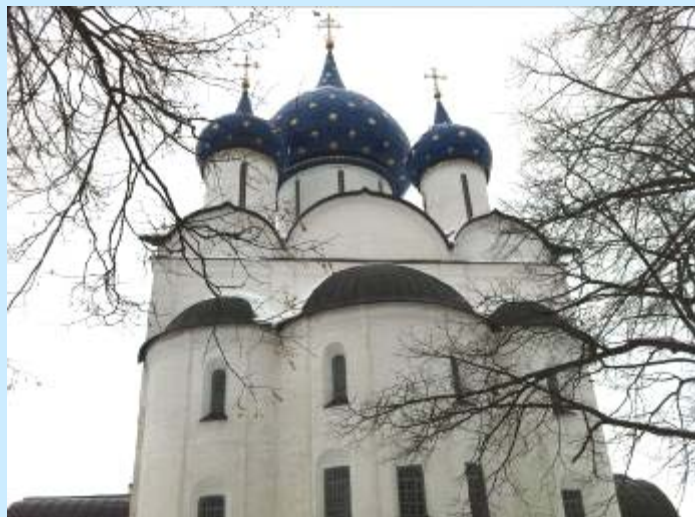




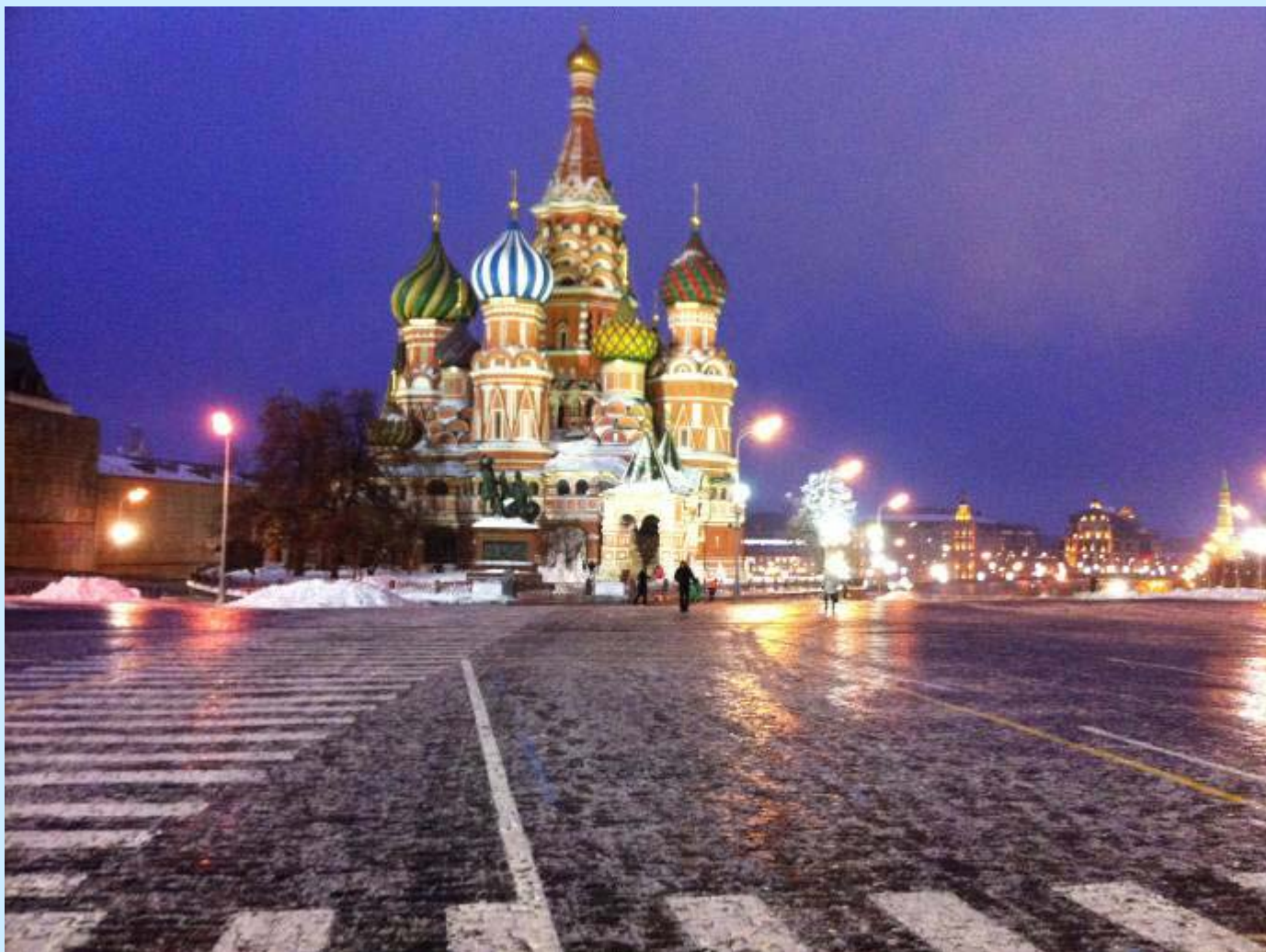


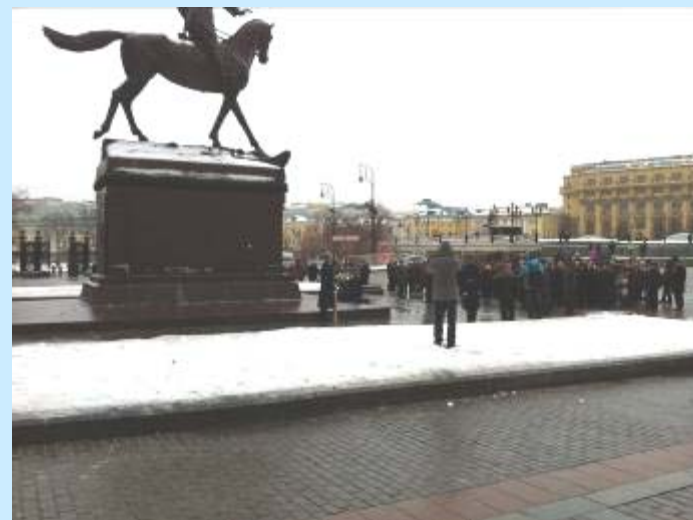






2/14/2013







TECHNICAL SUPPORT 2013

